

LIST OF CURRENT CLAIMS

1. (Cancelled).
2. (Currently Amended) Method according to claim ~~1~~, ~~characterized in that~~ 12, wherein said optical image analysis system creates an image of a log end, which image is created by a non-transradiating technique.
3. (Currently Amended) Method according to claim ~~1 or 2~~, ~~characterized in that~~ 12, wherein a log end image, obtained by said optical image analysis, is combined with positions for individual points in the log, whose positions have been obtained with another, under bark measuring system in order to determine the wood surface profile.
4. (Currently Amended) Method according to claim ~~1 or 2~~, ~~characterized in that~~ 12, wherein a log end image, obtained by said optical image analysis, is combined with positions for individual points on the log, whose positions have been obtained with another, on bark measuring system in order to determine the wood surface profile.
5. (Currently Amended). Method according to claim ~~1 or 2~~, ~~characterized in that~~ 12, wherein a log end image, obtained by said optical image analysis, is combined with another log end image obtained with some other measuring method.
6. (Currently Amended) Method according to claim ~~1 or 2~~, ~~characterized in that~~ 12, wherein a log end profile, obtained by said optical image analysis, is replaced or combined with another log end profile, obtained with some other measuring method, in those areas of the wood surface profile where the wood surface profile obtained by the

image analysis is less accurately determined than the wood surface profile obtained with some other measuring method for the same area.

7. (Cancelled).

8. (Cancelled).

9. (Currently Amended) Device according to claim 8, ~~characterized in that~~ 13, wherein said optical image analysis system comprises a non-transradiating measuring system, which creates an image of a log end.

10. (Currently Amended) Device according to claim ~~8 or 9, characterized in that~~ 13, wherein said another measuring system is an under bark measuring system, which determines positions for individual points in the log.

11. (Currently Amended) Device according to claim ~~8 or 9, characterized in that~~ 13, wherein said another measuring system is an on bark measuring system, which determines positions for individual points on the log.

12. (New) Method for determining the wood surface profile of a log end, comprising the steps of:

using an optical image analysis system to perform an optical image analysis for determining positions of individual points of a wood surface profile from an optical image of the log end;

using at least one further measurement system to determine positions of individual points on the log end; and

combining the positions determined from said optical image analysis system and the positions determined from said at least one further measurement system to create an adequate wood surface profile.

13. (New) Device for determining the wood surface profile of a log end, comprising:

an optical image analysis system for determining point positions of individual points on a wood surface profile from an optical image of the log end; and

at least one further measurement system for determining positions of individual points on the log end.